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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,720	09/22/2003	Steffen Sonnekalb	J&R-1126	9696
	7590 08/29/200 ENBERG STEMER LI	EXAMINER		
P O BOX 2480			PAN, DANIEL H	
HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
			2183	
			MAIL DATE	DELIVERY MODE
			08/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occasion	10/667,720	SONNEKALB, STEFFEN				
Office Action Summary	Examiner	Art Unit				
	Daniel Pan	2183				
The MAILING DATE of this communication app	pears on the cover sheet with the c	correspondence address				
Period for Reply	(10 OFT TO EVOIDE & MONTH					
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING Do Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versions are to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>07 Ju</u>	ine 2007					
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• ***	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
ologica in accordance with the practice and i	in parto quayro, 1000 0.5. 11, 10	33 3.3.2.3.				
Disposition of Claims		•				
4) Claim(s) is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	· Pr.					
10) The drawing(s) filed on is/are: a) acc	epted or b)☐ objected to by the	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:		, (-, -, (-,-				
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document		ion No				
3. Copies of the certified copies of the prio						
application from the International Burea						
* See the attached detailed Office action for a list	of the certified copies not receive	ed. ·				
Attachment(s)	4) M Intensions Summer	(PTO-413)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) A) Interview Summary (PTO-413) Paper No(s)/Mail Date. attached						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal F	Patent Application				
Paper No(s)/Mail Date	6) Other:					
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1. Claims 1-9 are presented for examination.

2. Upon further review and consideration, Chan et al. (6,163,837) is used to show the stop pipeline stages without creating any conditions as newly amended claim (see user inserted NOP into the pipelines set forth below in this action). And, claims 1-9 are rejected under 35 U.S.C. 101. The reasons are given below in this action. This is a non-final action in order to allow applicant a chance to respond. This action supersedes the previous action.

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 3. Claims 1-9 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The reasons are given below.
- 4. As to claim 1, claim 1 recites a configuration (see preamble). A configuration is an abstract idea. Although claim body recites program-controlled unit configured for executing pipeline instructions, it is not sure whether this program controlled unit is a part of the configuration which is an abstract idea itself or a part of the configuration which is a hardware processor? It is not sure whether this "configuration" is a machine, a method, or the combination? In the specification applicant taught program-controlled units are microprocessors (see specification page 1). However, applicant never taught "a configuration" is a microprocessor. Microprocessors or the program controlled units could be described by an abstract idea, and not being implemented as a machine or the like. No microprocessor is being reflected into the claim. It seems that

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"A configuration comprising " is a preemption of abstract idea, not directed to practical application. Therefore, it raised a doubt as what applicant is seeing is directed to statutory subject matter or not.

- 5. The evidence shows that, the stipulation of which of the pipeline stage(s) should be stopped (claim 1, lines 11-13) is an intended result. No useful, tangible, and concrete final result can be fund.
- 6. As to clams 2,4,5-9, although claims recite the program-controlled units is configured for specifying, blocking, beginning, or treating, the configuration itself is an abstract idea, and the specifying, blocking, beginning, or treating are intended results, no final result which is useful, tangible, and concrete (see MPEP 2100, (2) Practical Application That Produces a Useful, Concrete, and Tangible Result).
- 7. As to claim 3, claim 3 recites "can stipulate", which is an intended result.
- 8. Claims 1 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chan et al. (6,163,837) in view of Douglas et al. (6,609,193).
- 9. As to claim 1, Chan taught a system including:
- a) a program-controlled unit (compiler) including an instruction execution pipeline having a plurality of pipeline stages (figs.6,7, col.5, lines 36-67, col.6, lines 1-7) configured for executing pipeline instructions instructing program-controlled unit to stop an individual one of said plurality of pipeline stages, more than one of said plurality of pipeline stages, or all of said plurality of pipeline stages without creating any conditions for which a pipeline stage was stopped (see NOP inserted into the pipeline stage by user in col.7, lines 44-55); and the pipeline instructions stipulating which particular one of the plurality of pipeline stages should be stopped (for "stipulating", see user

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inserted a NOP in pipeline in col.7, lines 44-55, see also the programmer and compilers expected to know the latencies in col;.6, lines 54-67).

10. Chan did not specifically show to stop a plurality of stages or all stages as Douglas taught to stop an individual one of a plurality of pipeline claimed. However, stages, more than one of a plurality of pipeline stages (see clocks stalled), or all of said plurality of pipeline stages (see stalled clock in fig.8, see all xlaocks stalled, see fig.7 for instructions for stalling, see also the instructions for the stalling in the pipeline stages in col.11, lines 11-67, co1.12, lines 1-22). It would have been obvious to one of ordinary skill in the art to use Douglas in Chan for stopping a plurality of stages and all stages as claimed because the use of Douglas in Chan for stopping a plurality of stages or all stages because the use of Douglas could provide. Chan the ability to halt particular stages of the pipeline based on the user predefined sequence, and therefore, enhancing the interface control of the pipeline stages by user, and one of ordinary skill in the art should be able to recognize the applicability for stopping the pipelines stages at any number of stages because Chan already taught the insertion of NOP into the pipeline stage by user, and since no specific distinctions and details have been recited among the stopping of one pipeline stage, more than one and all pipelines stages, it was recognizable by one of ordinary skill in the art to realize that the user would have more flexibility in designating any number of stages for stopping in general as defined by user.

- 11. As to claim 2, Douglas also specified the length of time of the stage to be stopped (see time 1 in co1.11, lines 10-13, see time 2 in co1.12, lines 1-2).
- 12. As to claims 3,4, 5,6, Douglas also configured for setting a time for respective one of the plurality of pipeline stages at a particular time after executing (or passed through the pipeline) an instruction that instructs stopping (see the particular clock x for staling the pipe stage based on the given command in fig.7).

- 13. As to claim 7, Douglas also instructed stopping, or other instructions can stipulate a time for beginning to stop a respective one the plurality of pipeline stages (see the stalls by respective commands for each pipe stage in co1.8, lines 50-67, col.9, lines 1-13).
- 14. As to claim 8, Douglas also configured for blocking execution of the instructions, which instruct stopping (see blocking of stall in col .9, lines 50-58, co1.10, lines 1-6, co1.13, lines 38-42).
- 15. As to claim 9, Douglas also configured for treating the instructions, which instruct stopping, as unknown instructions when execution of the instructions, which instruct stopping, is not enabled (see the thread ID of the instruction was not considered in co1.10, lines 1-6, see the thread ID 0 blocking the instruction in co1.13, lines 38-42).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Barton et al. (6,233,389) is cited for the teaching of instructing to stop pipeline stages without condition (see the stopping of part of pipeline at user's whim in co1.10, lines 1-5).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dan Pan whose telephone number is 571 272 4172. The examiner can normally be reached on M-F from 8:30 AM to 4:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chan, can be reached on 571 272 4162. The fax phone number for the organization where this application or proceeding is assigned is 703 306 5404.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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